

IN THE CLAIMS:

1. (Original) A position detector for a check valve having a check valve arm
2 pivotable responsive to a change in position of the check valve, comprising:
a bracket having
4 a long leg generally parallel to a small leg, said long and small legs interconnected
at their lower ends by a bottom leg, and
6 a support arm extending from the upper end of the long leg, said support arm
being spaced from said small leg and including a portion facing said
8 bottom leg,
wherein said check valve arm is receivable between said support arm and said
10 bottom leg and between said long leg and said short leg;
a first set member on one of said short leg and long leg, said first set member being
12 adjustably movable toward the other of said short leg and long leg;
a second set member on one of said bottom leg and said support arm, said second set
14 member being adjustably movable toward the other of said bottom leg and support
arm;
16 a tilt switch;
a connector adjustably connecting said tilt switch to said bracket support arm in a selected
18 one of a plurality of secure positions pivoted around an axis fixed to said bracket

support arm, said axis being oriented generally transverse to said long and short
20 legs;
a circuit status indicator;
22 a wire connector for both said tilt switch and said circuit status indicator; and
a first plug selectively securable to said wire connector to form a first circuit with said tilt
24 switch and said circuit status indicator when said tilt switch is in a selected
position.

2. (Original) The position detector of claim 1, wherein said first plug
2 includes a power source for said circuit.

3. (Original) The position detector of claim 2, wherein said power source is
2 a battery.

4. (Currently Amended) The position detector of claim 1, further comprising
2 a second plug selectively securable to said wire connector in place of said first plug to form a
second circuit with said tilt switch and a controller, wherein said controller operates responsive
4 to the condition of the tilt switch.

5. (Original) The position detector of claim 1, wherein said circuit status
2 indicator is a light emitting diode.

6. (Original) The position detector of claim 5, wherein said light emitting
2 diode is integral with said tilt switch.

7. (Original) A position detector for a check valve having a check valve arm
2 pivotable responsive to a change in position of the check valve, comprising:

a bracket including a support arm;

4 adjustable securing members adapted to rigidly secure said bracket to said check valve
arm;

6 a tilt switch;

a connector adjustably connecting said tilt switch to said bracket support arm in a selected

8 one of a plurality of secure positions pivoted around an axis fixed to said bracket
support arm, said axis being oriented generally horizontally when said securing

10 members secure said bracket to said check valve arm;

a circuit status indicator;

12 a wire connector for both said tilt switch and said circuit status indicator; and

a first plug selectively securable to said wire connector whereby a first circuit with said

14 tilt switch and said circuit status indicator is formed when said tilt switch is in a
selected position.

8. (Currently Amended) The position detector of claim 7, further comprising
2 a second plug selectively securable to said wire connector in place of said first plug to form a

second circuit with said tilt switch and a controller, wherein said controller operates responsive
4 to the condition of the tilt switch.

9. (Original) The position detector of claim 8, wherein
2 said tilt switch closes said second circuit when said check valve arm is in a position
corresponding to said check valve being closed;
4 said controller controls a pump adapted to pump through said valve; and
said controller activates a pump operation alarm when operating said pump if said second
6 circuit closes.

10. (Original) The position detector of claim 7, wherein said bracket has:
2 a long leg generally parallel to a small leg, said long and small legs interconnected at their
lower ends by a bottom leg; and
4 said support arm extends from the upper end of the long leg, said support arm being
spaced from said small leg and including a portion facing said bottom leg;
6 wherein said check valve arm is receivable between said support arm and said bottom leg
and between said long leg and said short leg.

11. (Original) The position detector of claim 7, wherein said securing
2 members comprise:

a first set member on one of said short leg and long leg, said first set member being

4 adjustably movable toward the other of said short leg and long leg; and

a second set member on one of said bottom leg and said support arm, said second set

6 member being adjustably movable toward the other of said bottom leg and support
arm.

12. (Original) The position detector of claim 7, wherein said first plug
2 includes a power source for said circuit.

13. (Original) The method of claim 12, wherein said power source is a
2 battery.

14. (Original) The position detector of claim 7, wherein said circuit status
2 indicator is a light emitting diode.

15. (Original) The position detector of claim 14, wherein said light emitting
2 diode is integral with said tilt switch.

16. (Original) A method of securing a position detector to a check valve arm
2 pivotable responsive to a change in position of a check valve of a pump, comprising the steps of:

securing a support bracket to said check valve arm, said support bracket supporting a tilt

4 switch pivotable about a generally horizontal axis relative to said support bracket;

providing a powered circuit through the tilt switch and a position indicator associated

6 with the tilt switch;

pivoting the tilt switch while the check valve arm is in a closed position until the position

8 indicator is activated by the powered circuit;

securing said tilt switch against pivoting relative to said support bracket; and

10 providing a monitoring circuit through the tilt switch and a controller controlling the
pump.